

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=2; day=13; hr=13; min=5; sec=13; ms=20;]

=====

Application No: 10743625 Version No: 3.0

Input Set:

Output Set:

Started: 2009-01-29 11:00:47.510
Finished: 2009-01-29 11:00:49.775
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 265 ms
Total Warnings: 56
Total Errors: 0
No. of SeqIDs Defined: 56
Actual SeqID Count: 56

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2009-01-29 11:00:47.510
Finished: 2009-01-29 11:00:49.775
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 265 ms
Total Warnings: 56
Total Errors: 0
No. of SeqIDs Defined: 56
Actual SeqID Count: 56

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Krieg, Arthur M
Kline, Joel N

<120> IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES

<130> C1039.70073US00

<140> 10743625
<141> 2003-12-22

<150> US 08/276,358
<151> 1994-07-15

<150> US 08/386,063
<151> 1995-02-07

<150> US 08/738,652
<151> 1996-10-30

<150> US 09/818,918
<151> 2001-03-27

<160> 56

<170> PatentIn version 3.3

<210> 1
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 1
atggaaggtc cagtgttctc 20

<210> 2
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 2
atcgacctac gtgcgttctc 20

<210> 3
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 3
tccataaacgt tcctgatgct 20

<210> 4
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 4
gctagatgtt agcgt 15

<210> 5
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 5
gagaacgtcg accttcgat 19

<210> 6
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 6
gcatgacgtt gagct 15

<210> 7
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 7
tccatgacgt tcctgatgct 20

<210> 8
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 8
tccatgagct tcctgagtct 20

<210> 9
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 9
tccaaagacgt tcctgatgct 20

<210> 10
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 10
tccatgacgt tcctgacgtt 20

<210> 11
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 11
tccatgagct tcctgagtgc t 21

<210> 12
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 12
ggggtcaacg ttgaggggg 20

<210> 13
<211> 15
<212> DNA
<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 13

gctagacgtt agcgt 15

<210> 14

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (7)..(7)

<223> m5c

<400> 14

gctagacgtt agcgt 15

<210> 15

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (7)..(7)

<223> m5c

<220>

<221> modified_base

<222> (13)..(13)

<223> m5c

<400> 15

gctagacgtt agcgt 15

<210> 16

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 16

gcatgacgtt gagct 15

<210> 17

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 17

atggaaggtc cagcggtctc 20

<210> 18

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 18

atcgactctc gagcggtctc 20

<210> 19

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (3)..(3)

<223> m5c

<220>

<221> modified_base

<222> (10)..(10)

<223> m5c

<220>

<221> modified_base

<222> (14)..(14)

<223> m5c

<400> 19

atcgactctc gagcggtctc 20

<210> 20

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base
<222> (3)..(3)
<223> m5c

<400> 20
atcgactctc gagcggttctc 20

<210> 21
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (18)..(18)
<223> m5c

<400> 21
atcgactctc gagcggttctc 20

<210> 22
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 22
atggaagggtc caacgttctc 20

<210> 23
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 23
gagaacacgctg gaccttccat 20

<210> 24
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 24

gagaacgctc gaccttccat 20

<210> 25

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 25

gagaacgctc gaccttcgat 20

<210> 26

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 26

gagcaagctg gaccttccat 20

<210> 27

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (6)..(6)

<223> m5c

<400> 27

gagaacgctg gaccttccat 20

<210> 28

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (14)..(14)

<223> m5c

<400> 28
gagaacgctg gaccttccat 20

<210> 29
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 29
gagaacgatg gaccttccat 20

<210> 30
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 30
gagaacgctc cagcactgat 20

<210> 31
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 31
tccatgtcgg tcctgatgct 20

<210> 32
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 32
tccatgctgg tcctgatgct 20

<210> 33
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (8)..(8)
<223> m5c

<400> 33
tccatgtcgg tcctgatgct 20

<210> 34
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (12)..(12)
<223> m5c

<400> 34
tccatgtcgg tcctgatgct 20

<210> 35
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 35
tccatgacgt tcctgatgct 20

<210> 36
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 36
tccatgtcgg tcctgctgat 20

<210> 37
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 37
tccatgtcggtcctgatgct 20

<210> 38
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 38
tccatgccgg tcctgatgct 20

<210> 39
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 39
tccatggcgg tcctgatgct 20

<210> 40
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 40
tccatgacgg tcctgatgct 20

<210> 41
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 41
tccatgtcga tcctgatgct 20

<210> 42
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 42
tccatgtcgc tcctgatgct 20

<210> 43
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 43
tccatgtcgt tcctgatgct 20

<210> 44
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 44
tccatgacgt tcctgatgct 20

<210> 45
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 45
tccataaacgt tcctgatgct 20

<210> 46
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 46
tccatgacgt ccctgatgct 20

<210> 47
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 47
tccatcacgt gcctgatgct 20

<210> 48
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 48
gcatgacgtt gagct 15

<210> 49
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 49
gctagatgtt agcgt 15

<210> 50
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 50
ggggtaaagt ctgaaaaaaaaa 20

<210> 51
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 51
gctagacgtt agtgt 15

<210> 52
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (8)..(8)

<223> m5c

<400> 52

gctagacctt agtgt 15

<210> 53

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified_base

<222> (8)..(8)

<223> m5c

<400> 53

tccatgtcgt tcctgatgct 20

<210> 54

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 54

tccatgacgt tcctgatgct 20

<210> 55

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 55

tctcccaagcg tgcgccat 18

<210> 56

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 56

catttccacg atttccca 18